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Idea

A prescription is an instruction written by a medical professional that authorizes a patient to be issued with a medicine or a treatment. According to a study every year 7000 people die due to wrongful medication. **MedEx**, a web application enables a user and the pharmacist to easily understand the prescription. With **MedEx**, cases of misinterpretation of medicine names can be decreased. **MedEx** not only provides the names of medicines but also information like price, type and even substitute of that medicine.

Technology Stack

- Tensorflow
- Keras
- Bootstrap
- Jquery
- BeautifulSoup
- NodeJs
- Express

Implementation of Model

Using IAM handwritten database

Building a CNN in keras with tensorflow backend to obtain a sequence of features

Generating an output string

Building a generator function for cropping and generating random patches of images

Using LSTM cell from RNN to predict next character from image

Plan of Action

User uploads prescription

→

Prescription is scanned and passed through trained model.

→

Output string obtained is matched with custom repository containing all drug names.

→

After validation the drug name/s is/are appended to the result and on hover substitute names are displayed.